

Material Safety Data Sheet

1. Chemical Product and Company Identification

DESCRIPTION: ELMER'S SLIDE-ALL PRODUCT TYPE: TEFLON BASED LUBRICANT

APPLICATION: E450.

Manufacturer/Supplier Information

MSDS Prepared by:
Elmer's Products, Inc. Emergency Phone Number
1000 Kingsmill Parkway Poison Control Center
Columbus, OH 43229 1-800-228-5635 ext 22
For additional health, safety or regulatory information, call 614-225-7689.
Call 1-800-848-9400 to place an order or request additional MSDSs.

2. Composition, Information on Ingredients

The ingredients listed below have been associated with one or more immediate and/or delayed(*) health hazards. Risk of damage and effects depends upon duration and level of exposure. BEFORE USING, HANDLING, OR EXPOSURE TO THESE INGREDIENTS, READ AND UNDERSTAND THE MSDS.

 8 by weight

 67-63-0 *Isopropanol
 1-5

 74-98-6 Propane
 10-30

 106-97-8 Butane
 30-50

 109-66-0 Pentane
 30-50

 142-82-5 Heptane
 10-30

3. Hazards Identification

3.1 Emergency Overview

Appearance White powder Odor Mild solvent DANGER!

EXTREMELY FLAMMABLE May be harmful if inhaled. Can cause central nervous system depression. Skin irritant. Eye irritant.

HMIS Rating

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HEALTH = 2 (moderate)
FLAMMABILITY = 4 (severe)
REACTIVITY = 0 (minimal)
CHRONIC = *
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3.2 Potential Health Effects

Immediate Hazards

INGESTION: Not expected to be harmful under normal conditions of

use.

If accidently swallowed, burns or irritation to mucous

membranes, esophagus or GI tract can result.

INHALATION: May be harmful if inhaled. Liquid or vapor may cause

irritation of nose, throat and lungs.

Can cause central nervous system depression.

SKIN: Causes irritation. EYES: Causes irritation. Isopropanol 67-63-0

Can cause central nervous system depression. Signs and symptoms may include headache, dizziness, nausea, vomiting, unconsciousness and

even asphyxiation.
Propane 74-98-6

This material is a simple asphyxiant. Signs and symptoms of overexposure include cyanosis, respiratory distress, headache, dizziness, drowsiness, unconsciousness and asphyxiation. Can cause

central nervous system depression.

Pentane 109-66-0

Can cause central nervous system depression. Signs and symptoms may include headache, dizziness, nausea, vomiting, unconsciousness and even asphyxiation.

Heptane 142-82-5

Can cause central nervous system depression. Signs and symptoms may include headache, dizziness, nausea, vomiting, unconsciousness and even asphyxiation.

Delayed Hazards

Isopropanol 67-63-0

Suspect reproductive hazard. May cause reproductive disorders $% \left(1\right) =\left(1\right) \left(1\right$

based on animal data.

May cause liver damage based on animal data. May cause kidney damage based on animal data.

-- See Footnote C.

Footnote C: As of the date of issuance of this document, this material has not been listed by NTP, classified by IARC nor regulated $\,$

by OSHA as a carcinogen.

4. First Aid Measures

INGESTION: If accidently swallowed, dilute by drinking large

quantities of water. Immediately contact poison control

center or hospital emergency room for any other

additional treatment directions.

INHALATION: If inhaled, remove to fresh air. If not breathing,

give artificial respiration, preferably mouth-to-mouth.

Call a physician.

SKIN: Flush with plenty of water. Remove contaminated clothing. Call a physician if irritation persists.

EYES: Immediately flush eyes with plenty of water for at

least 15 minutes. Eyelids should be held apart during irrigation to insure water contact with entire surface of

eyes and lids. Call a physician.

5. Fire Fighting Measures

Autoignition Temperature Not available Upper/Lower Flammable Limits Not available Up/Lower Explosive Limits, % by Vol 12.7/1.1 Flash Point < -18 deg C EXTREMELY FLAMMABLE.

DO NOT INCINERATE (BURN) CONTAINER. AVOID HEAT. KEEP CONTAINER BELOW 120 F (50 C). High temperatures may cause bursting. Do not place container on radiator, stove, in direct sunlight or near other heat sources. DO NOT PUNCTURE CONTAINER. Contents under pressure will discharge. AVOID OPEN FLAMES, SPARKS, PILOT LIGHTS. DO NOT SMOKE. Vapor may ignite explosively. Spray mist or vapor evaporating from a deposited film is heavier than air and may settle in low places or travel outward to a source of ignition and flashback. In case of fire, use dry chemical, foam or CO2. Water may be ineffective, but should be used to keep fire-exposed containers cool.

6. Accidental Release Measures

Eliminate all ignition sources. Soak up with absorbent material and remove to a chemical disposal area. Prevent entry into natural bodies of water.

7. Handling and Storage

7.1 Handling

Handle in accordance with good industrial hygiene and safety practices. These practices include avoiding unnecessary exposure and removal of the material from eyes, skin and clothing.

Wash thoroughly after handling.

INHALATION: USE WITH ADEQUATE VENTILATION. To avoid breathing vapors or spray mist, open windows and doors or use other means, such as an exhaust fan to ensure fresh air entry during application and drying. If you experience eye watering, headache or dizziness, increase fresh air, wear respiratory protection (NIOSH/MSHA TC23C or equivalent), or leave the area.

SKIN: Avoid contact with skin and clothing.

EYES: Avoid contact with eyes.

7.2 Storage

Store in a cool, dry place.

8. Exposure Controls/Personal Protection

8.1 Exposure Controls

ENGINEERING CONTROLS: The following exposure control techniques may be used to effectively minimize employee exposure: local exhaust ventilation, enclosed system design, process isolation and remote control in combination with appropriate use of personal protective equipment and prudent work practices. These techniques may not necessarily address all issues pertaining to your operations. We, therefore, recommend that you consult with experts of your choice to determine whether or not your programs are adequate. If airborne contaminants are generated when the material is heated or handled, sufficient ventilation in volume and air flow patterns should be provided to keep air contaminant concentration levels below acceptable criteria.

8.2 Personal Protection

Where air contaminants can exceed acceptable criteria, use NIOSH/MSHA approved respiratory protection equipment. Respirators should be selected based on the form and concentration of contaminants in air in accordance with OSHA laws and regulations or other applicable standards or guidelines, including ANSI standards regarding respiratory protection. Use goggles if contact is likely. Wear impervious gloves as required to prevent skin contact.

8.3 Exposure Guidelines

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ACGIH TLV: 400 ppm (983 mg/m,,) TWA; 500 ppm (1230 mg/m,,) STEL
OSHA PEL: 400 ppm (980 mg/m,,) TWA
REMANDED PEL: 400 ppm (980 mg/m,,) TWA; 500 ppm (1225 mg/m,,) STEL
OSHA 1989 PEL remanded, but in effect in some states
               74-98-6
Propane
ACGIH TLV: 2500 ppm (4508 mg/m,,) TWA
OSHA PEL: 1000 ppm (1800 mg/m,,) TWA
            106-97-8
ACGIH TLV: 800 ppm (1900 mg/m,,) TWA
OSHA PEL: REMANDED PEL: 800 ppm (1900 mg/m,,) TWA
OSHA 1989 PEL remanded, but in effect in some states
              109-66-0
ACGIH TLV: 600 ppm (1770 mg/m,,) TWA
OSHA PEL: 1000 ppm (2950 mg/m,,) TWA
REMANDED PEL: 600 ppm (1800 mg/m,,) TWA; 750 ppm (2250 mg/m,,)STEL
OSHA 1989 PEL remanded, but in effect in some states
              142-82-5
ACGIH TLV: 400 ppm (1640 mg/m,,) TWA; 500 ppm (2050 mg/m,,)STEL
OSHA PEL: 500 ppm (2000 mg/m,,) TWA
REMANDED PEL: 400 ppm (1600 mg/m,,) TWA; 500 ppm (2000 mg/m,,)STEL
OSHA 1989 PEL remanded, but in effect in some states
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9. Physical and Chemical Properties

Percent Volatiles рН @ 25 C Not available Specific Gravity 0.61 Appearance White powder Autoignition Temperature Not available < 0 -136 deg C > 1 Boiling Point Vapor Density (Air=1) Vapor Pressure, mm Hg @ 20 C Not available EVAPORATION RATE (ETHER=1) > 1
Upper/Lower Flammable Limits Not available Up/Lower Explosive Limits, % by Vol 12.7/1.1 - 18 deg C
Not available Flash Point Freezing Point Mild solvent Not available Negligible Odor Odor Threshold, ppm Solubility in Water Coefficient of Water/Oil Distrib. Not applicable

10. Stability and Reactivity

Normally stable as defined in NFPA 704-12(4-3.1).

Incompatibilities:

None known to Borden.

Decomposition products may include:

CO, CO2.

· Hazardous polymerization:

Will not occur.

Other Hazards:

None known to Borden.

11. Toxicological Information

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See Section 3 Hazards Identification information. Isopropanol 67-63-0 LC50: rat=16000 ppm/8H (Sax) LD50: orl-rat=5.8 g/kg (Merck); skn-rbt=13 g/kg (Sax) Propane 74-98-6 LC50: Not available
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LD50: Not available
Butane 106-97-8
LC50: rat=658 gm/m,/4H (Sax)
LD50: Not available
Pentane 109-66-0
LC50: Not available
LD50: Not available
Heptane 142-82-5
LC50: Not available
LD50: Not available
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12. Ecological Information

Not determined.

13. Disposal Considerations

Dispose of according to local, state/provincial, and federal requirements.
Empty container: May contain explosive vapors. DO NOT cut, puncture or weld on or nearby. Incineration will cause container to burst violently.

14. Transport Information

14.1 U.S. Department of Transportation (DOT)

The data provided in this section is for information only and may not be specific to your package size. You will need to apply the appropriate regulations to properly classify your shipment for transportation.

ORM-D Consumer Commodity.

14.2 Canadian Transportation of Dangerous Goods (TDG)

Not determined.

15. Regulatory Information (Selected Regulations)

15.1 U.S. Federal Regulations

OSHA Hazard Communication Standard 29CFR1910.1200

This material is a "health hazard" and/or a "physical hazard" as determined when reviewed according to the requirements of the Occupational Safety and Health Administration 29 CFR Part 1910.1200 "Hazard Communication" Standard.

SARA Title III: Section 311/312

Fire hazard Sudden release of pressure (explosion) hazard Immediate health hazard Delayed health hazard

SARA Title III Section 313 and 40 CFR Part 372

This product contains the following toxic chemical(s) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986, and Subpart C-Supplier Notification Requirement of 40 CFR Part 372.

None required per SARA TITLE III SECTION 313.

TSCA Section 8(b) Inventory

All reportable chemical substances are listed on the TSCA Inventory. We rely on certifications of compliance from our suppliers for chemical substances not manufactured by Borden.

15.2 Canadian Regulations

Workplace Hazardous Materials Information System (WHMIS)

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulation (CPR) and the MSDS contains all the information required by the CPR.

CLASS D, DIV 2B

CLASS B, DIV 2

Canadian Environmental Protection Act (CEPA)

This product contains one or more chemical substances not included on either the Domestic Substances List (DSL) or the Non-Domestic Substances List (NDSL).

National Pollutant Release Inventory (NPRI)

This product contains the following chemical(s) subject to the

16. Other Information

· User's Responsibility

The OSHA Hazard Communication Standard 29CFR 1910.1200 and the Workplace Hazardous Materials Information System (WHMIS) require that the information contained on these sheets be made available to your workers. Educate and train your workers regarding OSHA and WHMIS precautions. Instruct your workers to handle this product properly. Consult with appropriate experts to guard against hazards associated with use of this product and its ingredients.

Disclaimer

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